Encouraging Curiosity with NLM's Online Toy box: Free and Reliable Health and Science Resources for K-5 Students



NLM Health Outreach

"The National Library of Medicine (NLM), on the campus of the National Institutes of Health in Bethesda, Maryland, has been a center of information innovation since its founding in 1836.



In addition, the Library coordinates a 6,000-member National Network of Libraries of Medicine that promotes and provides access to health information in communities across the United States."

URL for the National Library of Medicine



Locate Your NN/LM Office

- 8 Regional Offices
 - Support Network members to achieve NN/LM mission
 - 5-year contracts



Mission

 Provide K-12 educators, public library staff, health professionals, and the general public with equal access to and training on health and science resources

Join the NN/LM Network

URL to locate your Regional Medical Library

NLM K-12 Science and Health Education Topics

Biology	
Careers	
Environmental Health Science/Chemistry	
Forensics and Medical Technology	
General Health	
Genetics	

URL for K-12 Science and Health Education

General Health





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Health Topics

Drugs & Supplements

Videos & Tools

Español



Health Topics

Find information on health, wellness, disorders and conditions



Drugs & Supplements

Learn about prescription drugs, over-the-counter medicines, herbs, and supplements



Videos & Tools

Discover tutorials, health and surgery videos, games, and quizzes



Medical Encyclopedia

Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam-Webster

Look up in Dictionary

GO



Today's Health News

2nd U.S. Ice Cream Maker Pulls All Products After Listeria Threat

Daily Aspirin Taken by More Than Half of Older U.S. Adults

Very Young Kids Often Use Tablets, Smartphones, Study Finds

More health news

Clinical Trials

Search ClinicalTrials.gov for drug and treatment studies

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NIH MedlinePlus Magazine

Read the latest issue





Easy-to-Read Materials



Organizations and Directories



Health Information in Multiple Languages



MedlinePlus Connect for EHRs

URL for MedlinePlus

Grades	1 st Topics	2 nd Topics	3 rd Topics	MedlinePlus Topic Pages
K	The five senses and associated body parts	Hygiene, Diet, Exercise & Rest		Children's Health; Child Nutrition; Germs and Hygiene; Exercise for Children
1	Introduction to the systems of the human body and associated body parts	Taking care of your body: Germs, diseases, and preventing illness		Anatomy; Germs and Hygiene; Flu;
2-3	Digestive and excretory systems	Taking care of your body: Healthy eating and nutrition	Muscular, skeletal, and nervous systems	Digestive Diseases; Gas; Child Nutrition;
4-5	Circulatory system	Respiratory system	Endocrine system	Asthma; Blood; Diabetes;

Adapted from Exemplar Texts on a Topic Across Grades (URL)

Sleep Disorders

On this page Learn More Basics Multimedia & Tools Health Check Tools Summary Alternative Therapy Start Here Disease Management Tutorials Latest News Specific Conditions Videos Diagnosis/Symptoms Related Issues Games Treatment Reference Shelf For You Research Anatomy/Physiology Directories Children Clinical Trials Organizations Teenagers Genetics Statistics Women Research Seniors Journal Articles Patient Handouts

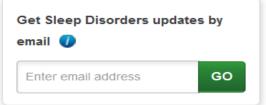
Summary

Is it hard for you to fall asleep or stay asleep through the night? Do you wake up feeling tired or feel very sleepy during the day, even if you have had enough sleep? You might have a sleep disorder. The most common kinds are

- . Insomnia a hard time falling or staying asleep
- Sleep apnea breathing interruptions during sleep
- · Restless legs syndrome a tingling or prickly sensation in the legs
- · Narcolepsy daytime "sleep attacks"

Nightmares, night terrors, sleepwalking, sleep talking, head banging, wetting the bed and grinding your teeth are kinds of sleep problems called parasomnias. There are treatments for most sleep disorders. Sometimes just having regular sleep habits can help.





MEDICAL ENCYCLOPEDIA

Aging changes in sleep

Changing your sleep habits

Drowsiness

EEG

Idiopathic hypersomnia

Irregular sleep-wake syndrome

Isolated sleep paralysis

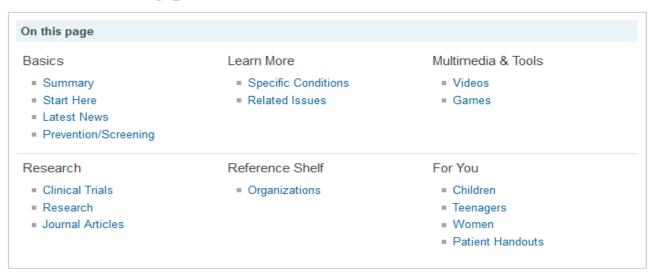
URL for Sleep Disorders (MedlinePlus)

THE SLEEP CARD GAME - These cards show matching pairs of actions. One action in each pair helps you get sleep. The other action can keep you from good sleep. Print this sheet of cards. Cut them out along the lines. Shuffle the cards and turn them face down. Each player picks up two cards. If the cards match, the player keeps the pair. If they don't match, replace the cards. The player with the most matched pairs wins!



URL for Sleep for Kids (National Sleep Foundation)

Germs and Hygiene



Summary

When you cough or sneeze, you send tiny germ-filled droplets into the air. Colds and flu usually spread that way. You can help stop the spread of germs by

- Covering your mouth and nose when you sneeze or cough. Sneeze or cough into your elbow, not your hands.
- Cleaning your hands often always before you eat or prepare food, and after you use the bathroom or change a diaper
- · Avoiding touching your eyes, nose or mouth

Hand washing is one of the most effective and most overlooked ways to stop disease. Soap and water work well to kill germs. Wash for at least 20 seconds and rub your hands briskly. Disposable hand wipes or gel sanitizers also work well.





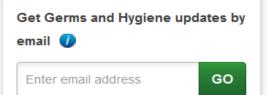












MEDICAL ENCYCLOPEDIA

Cleaning supplies and equipment

Cleaning to prevent the spread of germs

Isolation precautions

Personal protective equipment

URL for Germs and Hygiene (MedlinePlus)

Sample Germs & Hygiene Resources (Grade 1)







URL for Wash Your Hands-Video (CDC)

URL for Scrub Club (NSF)

URL for Put Your Hands Together-Video (CDC)

Child Nutrition

On this page Learn More Multimedia & Tools Basics Summary Specific Conditions Health Check Tools Start Here Related Issues Videos Latest News Games Diagnosis/Symptoms Research Reference Shelf For You Clinical Trials Dictionaries/Glossaries Children Research Directories Teenagers Journal Articles Organizations Patient Handouts Law and Policy Statistics

Summary

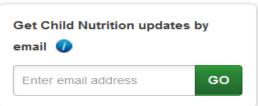
A healthy diet helps children grow and learn. It also helps prevent obesity and weight-related diseases, such as diabetes. To give your child a nutritious diet

- Make half of what is on your child's plate fruits and vegetables
- · Choose healthy sources of protein, such as lean meat, nuts, and eggs
- · Serve whole-grain breads and cereals because they are high in fiber. Reduce refined grains.
- . Broil, grill, or steam foods instead of frying them
- · Limit fast food and junk food
- Offer water or milk instead of sugary fruit drinks and sodas

Learn about your children's nutrient requirements. Some of them, such as the requirements for iron and calcium, change as your child ages.

NIH: National Institute of Diabetes and Digestive and Kidney Diseases





MEDICAL ENCYCLOPEDIA

Age-appropriate diet for children

Cow's milk and children

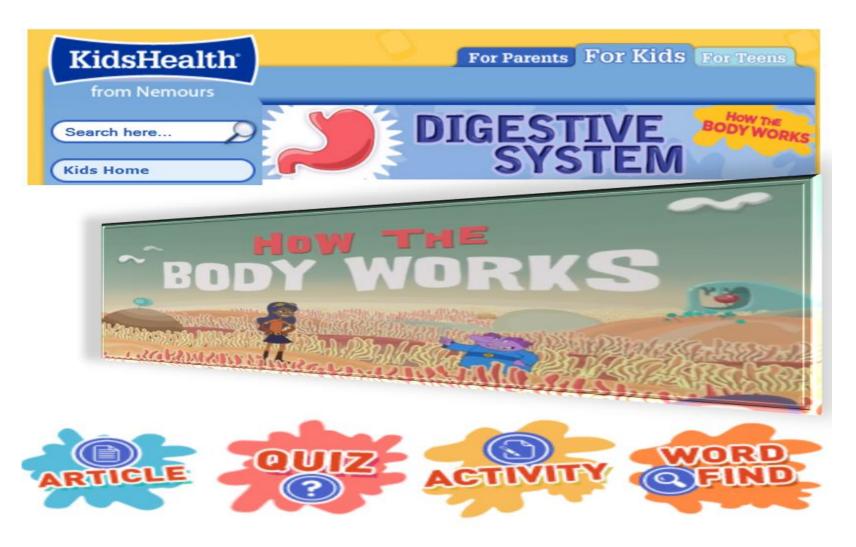
Eating extra calories when you are sick - children

Food jags

Kwashiorkor

Related Health Topics

URL for Child Nutrition (MedlinePlus)



SEE ALL PARTS ©

VIEW ALL MOVIES

URL for Digestive System-Video (KidsHealth)

Asthma in Children

Also called: Childhood asthma

On this page		
1 3		
Basics	Learn More	Multimedia & Tools
Summary	 Disease Management 	■ Pictures & Photographs
 Start Here 	 Specific Conditions 	Health Check Tools
Latest News	 Related Issues 	Tutorials
Diagnosis/Symptoms		Videos
Treatment		Games
Prevention/Screening		
Research	Reference Shelf	For You
Clinical Trials	 Dictionaries/Glossaries 	Children
Research	Directories	Teenagers
 Journal Articles 	Organizations	 Patient Handouts
	 Newsletters/Print Publications 	
	Statistics	

















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Summary

Asthma is a chronic disease that affects your airways. Your airways are tubes that carry air in and out of your lungs. If you have asthma, the inside walls of your airways become sore and swollen.

In the United States, about 20 million people have asthma. Nearly 9 million of them are children. Children have smaller airways than adults, which makes asthma especially serious for them. Children with asthma may experience wheezing, coughing, chest tightness, and trouble breathing, especially early in the morning or at night.

MEDICAL ENCYCLOPEDIA

Asthma - child - discharge

Asthma - children

Asthma - control drugs

Asthma - quick-relief drugs

URL for Asthma in Children (MedlinePlus)



URL for Lungtropolis (American Lung Association)

Bullying

On this page

Basics

- Summary
- Start Here
- I atest News
- Diagnosis/Symptoms
- Prevention/Screening

Research

- Clinical Trials
- Research
- Journal Articles

Learn More

- Coping
- Specific Conditions
- Related Issues

Multimedia & Tools

No links available

For You

- Children
- Teenagers

Statistics

Reference Shelf

Organizations

Law and Policy



Summary

Bullying is when a person or group repeatedly tries to harm someone who is weaker or who they think is weaker. Sometimes it involves direct attacks such as hitting, name calling, teasing or taunting. Sometimes it is indirect, such as spreading rumors or trying to make others reject someone.

Often people dismiss bullying among kids as a normal part of growing up. But bullying is harmful. It can lead children and teenagers to feel tense and afraid. It may lead them to avoid school. In severe cases, teens who are bullied may feel they need to take drastic measures or react violently. Others even consider suicide. For some, the effects of bullying last a lifetime.

Centers for Disease Control and Prevention

Start Here

- Bullying NH) (National Institute of Child Health and Human Development) Available in Spanish
- . Bullying: It's Not OK (American Academy of Pediatrics)







Enter email address

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Related Health Topics

Child Mental Health

School Health

Teen Mental Health

Teen Violence

MedlinePlus links to health information from the National Institutes of Health and other federal accomment

URL for Bullying (MedlinePlus)

Child Safety

On this page Basics Learn More Multimedia & Tools Summary Specific Conditions Videos Start Here I atest News Research Reference Shelf For You Research Organizations Children Journal Articles Statistics Patient Handouts

Summary

As parents, we want to keep our children safe from harm. Take steps to keep your children safe:

- Install the right child safety seat in your car
- · Teach children how to cross the street safely
- . Make sure they wear the right gear and equipment for sports
- Install and test smoke alarms
- · Store medicines, cleaners and other dangerous substances in locked cabinets
- · Babyproof your home
- Don't leave small children unattended

Start Here

- Child Safety: Keeping Your Home Safe for Your Baby (American Academy of Family Physicians)
 Available in Spanish
- First Aid and Safety (Nemours Foundation)
- Parents: ABCs of Raising Safe and Healthy Kids (Centers for Disease Control and Prevention)







Enter email address

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MEDICAL ENCYCLOPEDIA

Bathroom safety - children

Child Safety Seats

Cribs and crib safety

Preventing head injuries in children

Related Health Topics

URL for Child Safety (MedlinePlus)

School Health

On this page Multimedia & Tools Basics Learn More Specific Conditions Videos Summary Start Here Related Issues Latest News Prevention/Screening Research Reference Shelf For You Clinical Trials Children Organizations Law and Policy Research Teenagers Journal Articles Statistics

Summary

Your child spends more time at school than anywhere else except home. Schools can have a major effect on children's health. Schools can teach children about health, and promote healthy behaviors. Physical education classes give children a chance to get exercise.

Schools work to

- · Prevent risky behaviors such as alcohol and tobacco use, or bullying
- . Encourage healthy habits like exercise and healthy eating
- · Deal with specific health problems in students, such as asthma, obesity and infectious diseases

The school building and environment should be a safe and healthy place for your child.

Start Here

- Safe Youth. Safe Schools. (Centers for Disease Control and Prevention)
- · Staying Healthy in School: Kid-Friendly Tips (Mayo Foundation for Medical Education and Research)





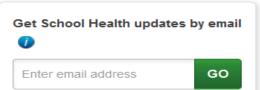












Related Health Topics

Bullying

Child Safety

College Health

NIH MedlinePlus Magazine

Asthma and Schools

MedlinePlus links to health information

URL for School Health (MedlinePlus)

Careers





Search MedlinePlus

GO

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Health Topics

Drugs & Supplements

Videos & Tools

Español

Home → Health Topics → Health Occupations

Health Occupations

Also called: Health careers, Health professions, Medical occupations, Medical professions

On this page			
Basics	Learn More	Multimedia & Tools	
SummaryStart HereLatest News	Specific ConditionsRelated Issues	■ Videos	
Research	Reference Shelf	For You	
Financial Issues	Directories	Children	
Clinical Trials	Organizations		
Journal Articles	Statistics		

Summary

Every day, around the clock, people who work in the health care industry provide care for millions of people, from newborns to the very ill. In fact, the health care industry is one of largest providers of jobs in the United States. Many health jobs are in hospitals. Others are in nursing homes, doctors' offices, dentists' offices, outpatient clinics and laboratories.













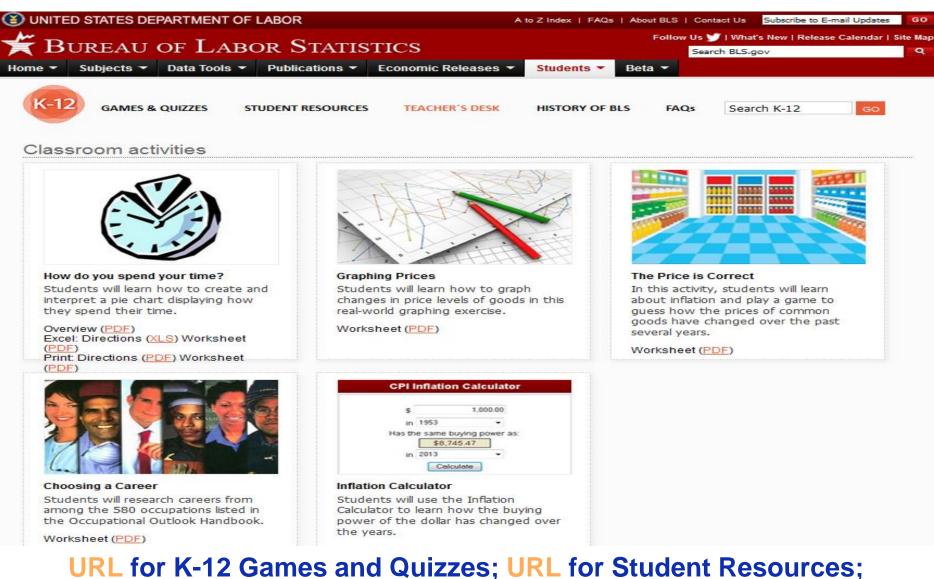
Get Health Occupations updates by email 1

Enter email address

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MEDICAL ENCYCLOPEDIA

URL for Health Careers (MedlinePlus)



URL for K-12 Games and Quizzes; URL for Student Resources;
URL for Teacher's Desk (Bureau of Labor Statistics)



Changing the face of Medicine

HOME

ACTIVITIES

PHYSICIANS SHARE your STORY



Discover the many ways that women have influenced and enhanced the practice of medicine. The individuals featured here provide an intriguing glimpse of the broader community of women doctors who are making a difference. The National Library of Medicine is pleased to present this exhibition honoring the lives and accomplishments of these women in the hope of inspiring a new generation of medical pioneers.

*

Explore the Exhibition

▶ VISIT

This exhibition at the National Library of Medicine closed on November 19, 2005. Its traveling exhibition itinerary is available online. Please refer to "On Exhibit at NLM" on the Library's home page for information on the current exhibition on display at the Library.

▶ PHYSICIANS

Perform your own customized database <u>search</u> to learn about the woman physicians featured in this exhibition. Learn about their sources of inspiration, the challenges they faced, and their accomplishments.

▶ RESOURCES

Students, find out if a <u>career in</u> <u>medicine</u> is for you through the guide to medical career Web sites. Teachers, print classroom <u>lesson plans</u> and view an extensive <u>bibliography</u> including books and videos.

New Book! <u>Women</u> Physicians and the Cultures of Medicine.

URL for Changing the Face of Medicine

CELEBRATING AMERICA'S WOMEN PHYSICIANS



Changing the face of Medicine

HOME RESOURCES

VISIT ACTIVITIES

PHYSICIANS SHARE your STORY

Careers

Lesson Plans

Higher Education

Suggested Reading



RESOURCES

The following resources have been assembled for students, teachers, and medical professionals to complement the exhibition.

* CAREERS

Students and medical professionals—learn about steps you can take to join the field of medicine and to enhance your medical career. Explore links to Web sites that will provide you with all the information you need.

* LESSONS

Teachers—bring the world of medicine into your classrooms. Lesson plans targeted for specific age groups within K-12 have been designed to enhance understanding of the physiology of the body and the field of medicine.

URL for Changing the Face of Medicine Resources

Haz-Map















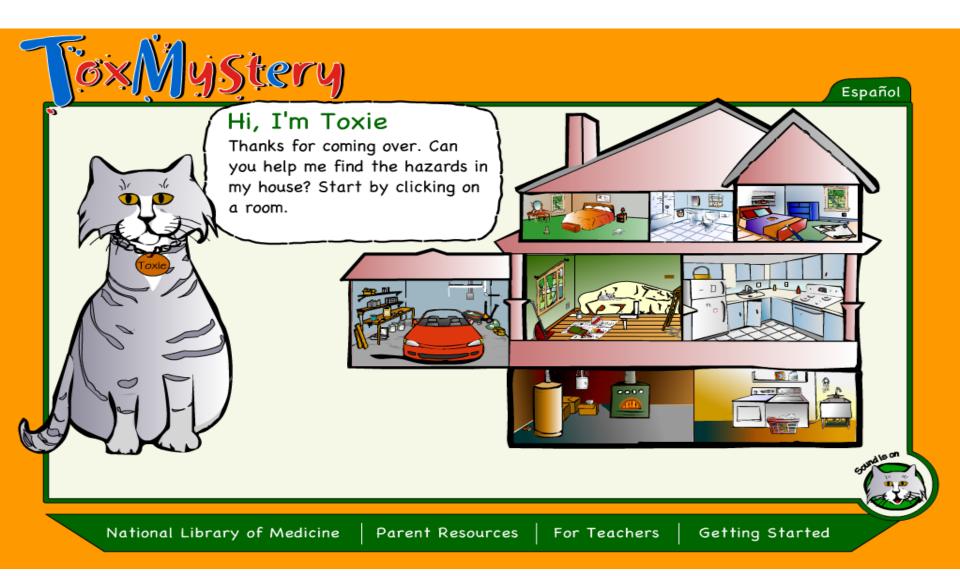


Haz-Map is an occupational health database designed for health and safety professionals and for consumers seeking information about the adverse effects of workplace exposures to chemical and biological agents.

URL for Haz-Map

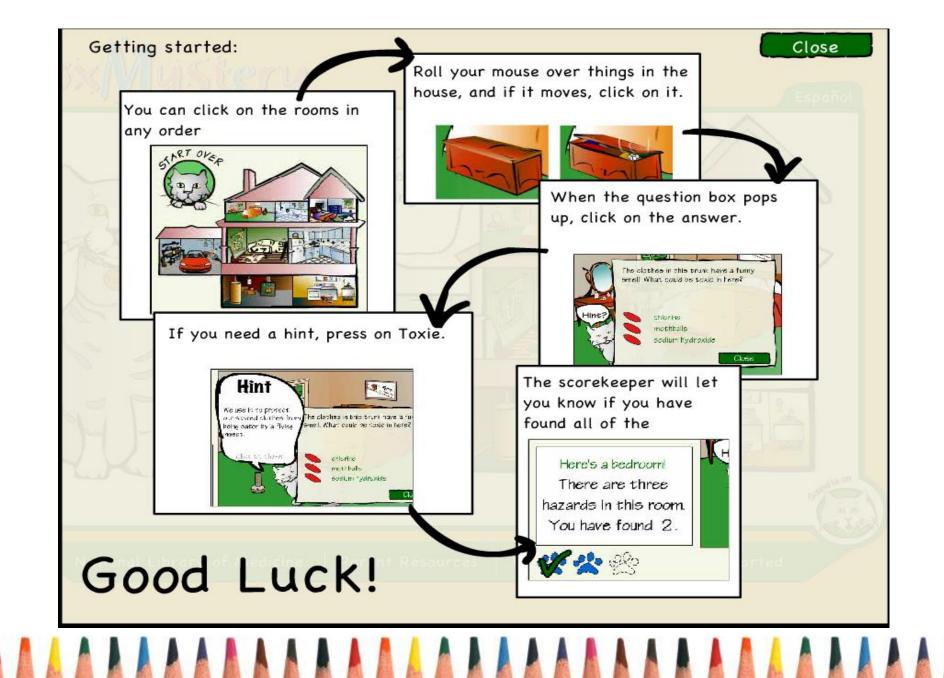
Environmental Health





Suitable for ages 7-11

URL for ToxMystery



ToxMystery Lesson Plan 1: Introduction to Common Household Chemical Hazards

Grade Level: 2-6

Description: This lesson plan will introduce students to potential environmental health hazards in their day-to-day environment. Students will be introduced to ToxMystery, a computer game activity, and either individually or in groups, they will find potential environmental health hazards in each room of the house that is presented by the game. They will then answer multiple choice questions posed by the game about the hazards they encounter and complete assigned activity sheets.

National Science Educational Standards

Unifying Concepts and Processes:

- Understanding of evidence, models, and explanation
- Understanding of form and function

Science as Inquiry:

- · Abilities necessary to do scientific inquiry
- Understanding about scientific inquiry

Science in Personal and Social Perspective:

- Personal health
- Types of resources
- Natural hazards
- · Changes in environments
- Science and technology in society

History and Nature of Science

- Science as hum an endeavor
- Nature of science
- · History of science

Learning Outcomes

Students will be able to:

- Compare and analyze appropriate uses for chemicals and other household products
- List and describe several chemicals and their potential dangers.

National Library of Medicine / HHS

I http://toxmystery.nlm.nih.gov

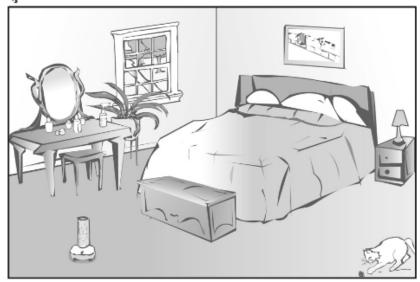


What am I?

National Library of Medicine / HHS

Fill-in-the-Blank

http://toxmystery.nlm.nih.gov



I	Word Box			
l	Pesticide	Carbon Monoxide	Mothballs	Mercury
3	olve the clues using th	e word box below and colo	reach hazard BLUE.	
I	. Iam a gas that you c	an't smell ortaste. Ican po	ison you if you breat	hetoomuchofme.
1	/hat am I?			
	. I am used in sprays to r swallow me.	okill bugs and fungus on ho	ouseplants. You shou	uld never touch, breathe,
/	/hat am I?			
3		imes that are used to kill th mans, so be careful.	e mothsthateatyou	r dothes. Unfortunately, l

Ozone



Summary

Ozone is a gas. It can be good or bad, depending on where it is. "Good" ozone occurs naturally about 10 to 30 miles above the Earth's surface. It shields us from the sun's ultraviolet rays. Part of the good ozone layer is gone. Man-made chemicals have destroyed it. Without enough good ozone, people may get too much ultraviolet radiation. This may increase the risk of skin cancer, cataracts, and immune system problems.

"Bad" ozone is at ground level. It forms when pollutants from cars, factories, and other sources react chemically with sunlight. It is the main ingredient in smog. It is usually worst in the summer. Breathing bad ozone can be harmful. It can cause coughing, throat irritation, worsening of asthma, bronchitis, and emphysema. It can lead to permanent lung damage, if you are regularly exposed to it.

Environmental Protection Agency

Start Here

- Air Quality Guide for Ozone (Environmental Protection Agency)
 Available in Spanish
- Ozone NH) (National Institute of Environmental Health Sciences)
- Ozone (Environmental Health Student Portal) NH) (National Library of Medicine)





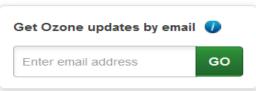














National Institutes of Health

The primary NIH organization for research on *Ozone* is the National Institute of Environmental Health Sciences

MedlinePlus links to health information from the National Institutes of Health

Search MedlinePlus for the topic page names to locate resources

\$EPA

About EPA

Search EPA.gov

Contact Us Share

Q.

Learning and Teaching about the Environment

K-12 students and educators need access to quality homework resources, lesson plans and project ideas to learn and teach about the environment. Environmental education (EE) is a multidisciplinary approach to learning about environmental issues that enhances knowledge, builds critical thinking skills and helps students make informed and responsible decisions.

Homework Help, Awards and Activities for K-12 Students



- Homework resources
- Student awards and contests, including the President's Environmental Youth Award
- Games, guizzes, and more
- Videos about the environment

Additional Resources for **Educators and Education Professionals**

Classroom Resources and Project Ideas



- Lesson plans, teacher guides and online resources for educators
- Community service project ideas
- Science fair project ideas

Healthy Schools. **Healthy Kids**

News and Deadlines

- Congratulations to our latest President's **Environmental Youth** Award winners! Applications are now being accepted for the next cvcle.
- · Take a look at the newest Campus RainWorks Challenge winners.

Find Local Resources

To find local resources or more information on inviting EPA staff to visit your school, talk to your Regional **Environmental Education** Coordinator.

Order Materials

URL for Learning and Teaching about the Environment (EPA)





URL for Fish Kids (EPA)

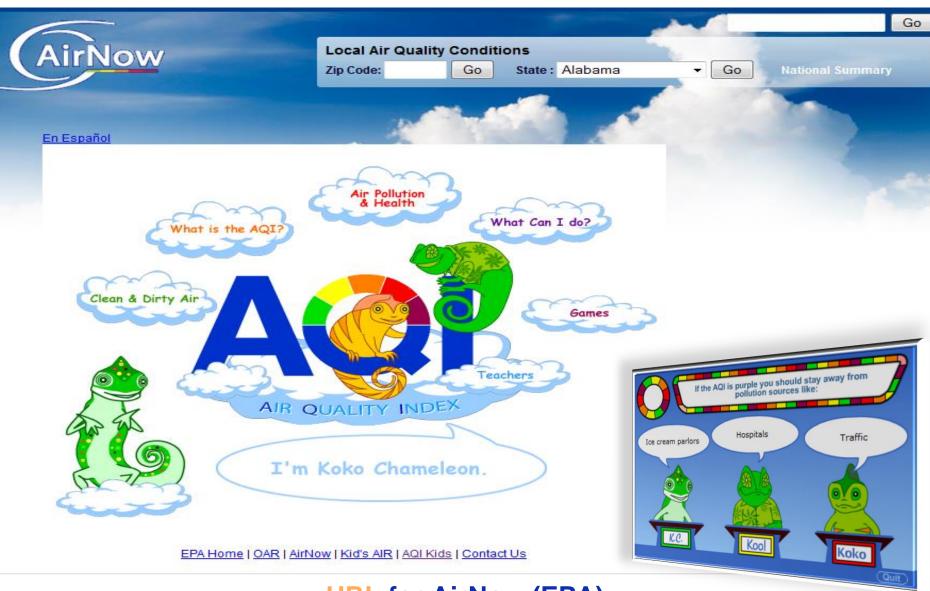
There are many
household products used
around your home.
What do you know
about them?

Join us for a house tour and learn more about the chemicals around your home.





URL for Learn About Chemicals Around Your House (EPA)



URL for AirNow (EPA)

NLM's Online Exhibitions



EXHIBITION PROGRAM

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EXHIBITIONS

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EDUCATION

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SITE MAP

SEARCH

EXHIBITIONS

VIEW CATEGORIES BY: MOST RECENT ALPHABETICALLY



medicine & the arts



FRANKENSTEIN: Penetrating the Secrets of Nature



AND THERE'S THE HUMOR OF IT: Shakespeare and the Four Humors



THE LITERATURE OF PRESCRIPTION: Charlotte Perkins Gilman and "The Yellow Well-Peper"

lle weiv

science & society



PICK YOUR POISON: Intoxicating Pleasures & Medical Prescriptions



FROM DNA TO BEER: Hernessing Nature in Medicine and Industry



SURVIVING AND THRIVING: AIDS, Politics and Culture

view all

patients & practitioners



PICTURES OF NURSING: The Zwerdling Postcerd Collection



THE HENKEL PHYSICIANS: A Family's Life in Letters



HEALING THE NATION: Stories from the Civil War

lla weir

the technology of medicine



VISIBLE PROOFS: Forensic Views of the Body



THE ONCE AND FUTURE WEB: Worlds Woven by Telegraph and Internet

URL for NLM's Exhibition Program



"Health is a reflection of a society

— Peoples' Health Movement, 20

EXHIBIT

GUEST COLUMN



PREVIOUS TOPIC

NEXT TOPIC .

DISASTER PRE

The Central American Disaster Information Network (CANDHI) provides the technology needed to access databases, publications, and online resources on disaster preparedness, and to connect to a web site that provides news, maps, local weather updates, and alerts.

Click here to learn more

ONLINE ACTIVITIES & RESOURCES



Test your knowledge of the world of global health in online activities, and take this topic into the classroom with resources for students and teachers.

View Games & Lessons >

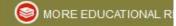
DOWNLOADS

Hear more about global health topics from leaders and advocates featured in the exhibition.

Get Downloads .

EXPLORE







My Agita Brazil: Healthy Lifestyle

Grade Level: 3-6 grades

Description: This lesson incorporates visual materials from the Against the Odd's exhibition to engage visual learners and to encourage students to apply a successful public health program to their own lives. Students learn about Brazilian students who adopt an active, healthy lifestyle through the Agita São Paulo program. Students connect with students in Brazil through their photos and drawings promoting various physical activities. Students also develop their own ideas on how to adopt an active, healthy lifestyle for themselves. Finally, students create materials to inform others about and persuade them to improve their health with 30 minutes of dail yphysical activity.

Learning outcomes: Students will be able to:

- Locate the continent of South America and the country of Brazil on a map of the world.
- Identify at least three different physical activities they can do for 30 minutes a day.
- Write and/or illustrate a message that promotes the importance of 30 minutes of daily physical activity.

Time Needed: Two 30-minute periods

Background information:

Against the Odds exhibition provides brief background information on Brazil's Agita São Paulo
public health program.

Materials:

- Chalkboard and for flip chart and markers
- Aworld map and (optional) a transparency of a map of Brazil with its capital, Brasilia, São Paulo, and Amazon River, along with an image of the Brazilian flag.
- Notes for teachers for the visual materials from the Brazil's Agita program
- Agita São Paulo visual materials:
- Physical activity pyramid drawings by Brazilian students: <u>Activity Pyramid 1</u>, Activity Pyramid 2
- ⇒ Two photos of Agita São Paulo events: Event Photo 1, Event Photo 2
- ⇒ Agita's mascot clock
- ⇒ Physical activity poster
- Agita: Dance Your Wayto Health story
- Agita in Your Life worksheet
- Colored markers or crayons
- Magazines and scissors
- Construction paper for posters
- Tape or glue (for display of the physical activity posters created by the class)

Lesson 1 Procedures:

Think-Pair-Share warm up

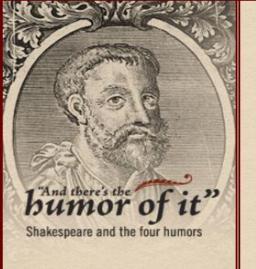
- Write down the following two questions on the board or flip chart to assess students' knowledge and assumptions about the relationship between physical activities and health:
 - a. List three things you do that help you stay health y.
 - b. How do these things keep you healthy?
- 2. Have students work in pairs to answer the two questions on the board or flip chart
- Ask pairs to share their answers and record student responses—e.g., healthy eating habits, exercising, playing outside, walking, resting, sleeping, etc.



http://www.nim.nih.gowlag.ainstitheodds/

Page

URL for Against the Odds Online Exhibition



Exhibition

Education

Lesson Plans Middle School

High School

Higher Education

Additional Resources

Traveling Exhibition

Credits

Exhibition Program

Lesson Plans

Middle School

The Four Humors: from Hippocrates to Shakespeare

<u>Learning Outcomes</u> <u>Background Information</u> <u>Vocabulary</u> <u>Materials</u> <u>Class 1</u> <u>Class 2</u> Evaluations Extension Opportunities Standards

Grade Level:

5-8, in connection with the study of ancient civilizations

Time Needed:

two 45-minute periods

Description:

Students view primary and secondary sources related to the medical theory of the four humors and its influence on Shakespeare from the online exhibition, "And there's the humor of it" Shakespeare and the four humors. In Class 1, students learn about Hippocrates and Galen in the context of traditional Western medicine and humoral theory. Students also write on an exit slip their own thoughts on whether or how modern medicine considers the mind-body connection. In Class 2, students examine the four humors as they relate to bodily fluids and temperaments that continued as an integral part of Western medicine's view of the mind-body connection in Shakespeare's time, using various primary visual sources. Afterwards, students consider the current understanding of the mind-body connection by reading two articles and writing an essay where they revise and elaborate on their exit slips written during Class 1, Step 10.

URL for "And there's the humor if it" Online Exhibition





EDUCATION

Lesson Plans

Lesson Plans

- Primary Sources
- · Then and Now

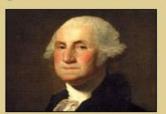
Higher Education Modules

Online Activities

Other Resources

GEORGE WASHINGTON: Primary Sources

grade level 5-8 | subject - history and social studies



George Washington and Primary Sources is prepared in connection with the study of U.S. history, specifically the Revolutionary War period and George Washington. Students define what primary and secondary sources are. They then use and analyze several primary and secondary sources from the online exhibition to learn about how George Washington worked to ensure the health and safety of others under his care—troops, as well as family, servants, and slaves living at his Mount Vernon estate.

GEORGE WASHINGTON AND MEDICINE: Then and Now

grade level 7-9 | subject - history and social studies, health education



George Washington and Medicine: Then and Now engages students in examining primary and secondary sources from the exhibition to learn about several health issues and treatments that George Washington dealt with in caring for those under his charge—troops, family, servants, and slaves. Students consider the knowledge and practice of medicine during the American Revolutionary and Early Republic eras. They investigate how those health issues are being understood and treated in our own time and present their findings in posters as well as in written essays.

URL for Every Necessary Care & Attention Online Exhibition



Home

Exhibition

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LESSON PLANS

Middle School Lesson Plan

The U.S. Civil War: Wounded Soldiers, Disabled Veterans is prepared for 5-8 grade classes. In this lesson, students examine several primary sources related to the Civil War, including photos and illustrations. They also use four sections from the Life and Limb: The Toll of the Civil War exhibition to consider causes and effects of the war-time medical practices that shaped the experiences of wounded soldiers, and the changing attitudes toward disabled veterans after the war.

High School Lesson Plan ▶

The U.S. Civil War: Living With Battlefield Injuries is designed for 9-12 grade classes. The lesson focuses on students' using primary sources and their transcripts in order to develop deeper understanding of short- and long-term impact of non-fatal Civil War casualties on Americans. Students first explore the Life and Limb exhibition as an introduction on the topic. They closely examine transcripts of several Civil War documents such as excerpts from a soldier's memoir, Senate Bill 173, poems of that era, and illustrations and photos of soldiers. Afterwards, students work in small groups and create political cartoons that reflect their understanding of the experiences and treatments of wounded and disabled soldiers during and after the war.



URL for Life and Limb Online Exhibition

BINDING WOUNDS PUSHING BOUNDARIES

African Americans in Civil War Medicine

TRAVELING INFORMATION

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Lessen Plans

EXHIBITION

Elementary School | High School

Elementary Lesson Plan:

HOME

African American Surgeons and Nurses in the U.S. Civil War

EDUCATION

<u>Learning Outcomes</u> <u>Materials</u> <u>Evaluations</u>

Background Information Class 1 Extension Activities

<u>Vocabulary</u> <u>Class 2</u> <u>National Education Standards</u>

Grade Level: 4-6

Time Needed: two to three 40-minute class periods

Description: Students learn about four African American surgeons and nurses who served in the Union during the American Civil War. In Class 1, students consider African Americans' experiences of being limited by others in what they could do due to slavery and prejudice against them. Students closely examine Dr. Augusta's letter to President Lincoln, written in 1863, as a case study of an African American who became a doctor and worked with African American soldiers in the Union army. In Class 2 (and 3 if needed), students read the biographical sketches of Dr. Augusta and one of three other Civil War African American doctors and purses. Students reflect upon what they have read and learned, and then write about that reflection

URL for Binding Wounds Pushing Boundaries

AVOYAGE TO HEALTH





Education

HOME . EXHIBITION . EDUCATION . CREDITS



TRAVELING INFO

Lesson Plans

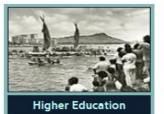
- Activism and Healing
- Hawaiian Star Compass

Higher Education

Online Activities

Other Resources







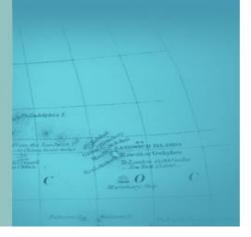


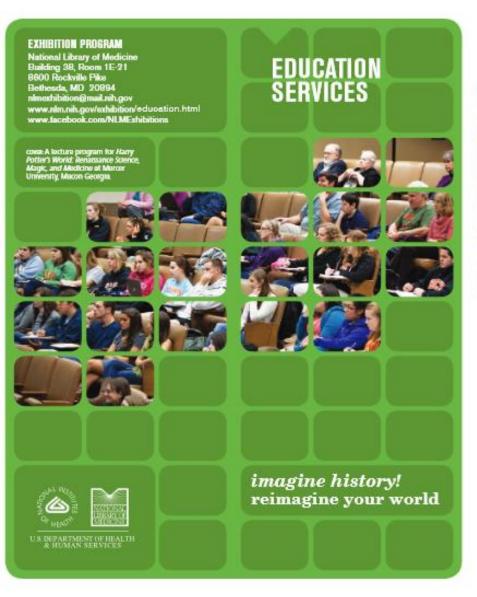
LESSON PLANS

ACTIVISM AND HEALING: Kanaloa Kaho'olawe, a Hawaiian Island grade level: 5-8 | subject-history and social studies

The lesson plan engages students in exploring A Voyage to Health. Students demonstrate their comprehension of the online exhibition by creating a class timeline that chronicles key events related to Kanaloa Kaho'olawe, one of the Hawaiian Islands. They then use the timeline as a case study in identifying causes and consequences of each event, as well as consider how the perspectives may differ among different groups. This timeline case study allows students to examine a wide range of issues, such as how interpretation of events is influenced by cultural perspectives, how historical events influence physical and human geography, how belief systems and government policies can conflict, and how citizen actions can influence public policy. The activities in this lesson plan can be used in a variety of social study areas, such as United States history, the regions and cultures of the United States, world geography and cultures, global and environmental issues, government, and civil wighte

URL for A Voyage to Health





sease Dr. Victoria Cargill from the Office of AIDS Research, National Institutes of Health addresses young visitors to Against the Odds: Making a Difference in Global Health



Exhibition Program Education Services engages, encourages, and serves educators, as well as students of all ages who are researching a topic or simply curious about the world around them. We develop resources that examine and interpret the ongoing interaction between science, society, and the humanities, in collaboration with educators and library professionals.

We provide online educational resources for elementary to higher education levels, as well as onsite exhibition tours, school field trips, and professional development programs for K-12 educators. For more information, please visit our website!

ABOW MARK Library Media Specialists from the District of Columbia public schools work together during a professional development session.

ROTTOM BIGHE "The World of Global Health" Interactive, Against the Odds: Making Difference in Global Health





URL for Education Service Brochure

Additional Resources/Services



Images from the History of Medicine

Images from the History of Medicine (IHM) provides access to over 70,000 images dated from the 15th to the 21st century in the collections of the History of Medicine Division (HMD) of the U.S National Library of Medicine (NLM).

The collection includes:



Copyright and Permissions do apply Viewer discretion is advised.

URL for Imagers from the History of Medicine web site



Home General Health and Biology

Genetics Resources

Careers in Health Professions

Forensics and Medical Technology

Environmental Health and Chemistry

Interdisciplinary Topics Teen/Youth Resources

K-12 Resources from Reputable Agencies

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Stay Connected with NN/LM® MAR ♣

- Boost Box a monthly webinar to boost your knowledge of NLM products or other health information topics
- Lunch with the RML a monthly webinar to share experiences and ideas with MAR staff and Network members
- MAR-L Listserv Subscribe to weekly announcements to keep aware of breaking developments from NLM, funding opportunitites, and other important information
- The MAReport quarterly newsletter for the NN/LM Middle Atlantic Region
- MARquee News Blog announcements, upcoming events, technology tips, etc.
- Facebook "Like" us on the popular social networking site
- Twitter Follow us on Twitter for information resources that you can use

(Add / Edit Text 🖉)

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Evaluating Online Resources

NLM and K-12 Professionals



Whether you work in a K-12 School, Community or Faith-Based Organization providing after school programming, NLM provides resources to help enrich your curriculum/program. The National Library of Medicine (NLM), the world's largest medical library and a component of the National Institutes of Health, produces a variety of web-based resources for use by K-12 health and science educators.

Educators are welcome to review and use the modules or lesson plans, in whole or in-part, for their students' interests, levels and academic goals. These resources are designed to engage students' interest in and foster their analysis of a variety of health and science related topics.

Locate online resources in the following topics:

General Health and Biology

Forensics and Medical Technology

Genetics

Environmental Health and Chemistry

Careers in Health Professions

Health Resources for Teens

To request training on NLM resources for K-12 Professionals contact

Remove Profile Boxes from Page

NN/LM MAR Consumer Heatlh Coordinator



Lvdia Collins

Contact Info

NN/LM MAR

Health Sciences Library System University of Pittsburgh

200 Scaife Hall

200 Scalle Hall

3550 Terrace Street

Pittsburgh, PA 15261

412.624.1411

Send Email

Links:

Profile & Guides

Subjects:

Consumer Health

MedlinePlus Magazine



URL for K-12 Professionals Resource Guide

Multiple Language Health Resources

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NN/LM MAR Training



NN/LM MAR staff provide no-cost training session on health information resources, with an emphasis on free resources from the National Library of Medicine. Locate information about upcoming trainings and see past offerings.

- NN/LM MAR Training & Educational Opportunities
- NN/LM MAR and the National Training Center upcoming courses

View all upcoming courses offered by NN/LM MAR Coordinators and the National Training Center (NTC).

 NN/LM MAR Current Class Offerings Descriptions
 View NN/LM MAR class descriptions (LibGuide) for classes that are currently being offered.

Welcome to NN/LM MAR Information for Public Libraries



The National Library of Medicine (NLM) Provides freely available resources on a variety of topics for use by Public Libraries to use in their communities. Locate resources by subject using the information compiled by the Consumer Health Coordinator at the National Network of Libraries of Medicine, Middle Atlantic Region (NN/LM MAR).

Highlighted Resources by Population/Topic:

Adult/General/Senior Health

Health Resources for Teens

NLM's K-12 Resources

Consumer Health

Finding Health and Wellness @ the Library: A Consumer Health Toolkit for Library Staff 2nd edition

Affordable Care Act Information

Health Resources in Multiple Languages

If you have any questions or would like training on the resources listed, please contact NN/LM MAR via e-mail, nnlmmar@pitt.edu or via telephone (800) 338-7657.

NN/LM MAR Consumer Heatlh Coordinator



Lydia Collins

Contact Info

NN/LM MAR Health Sciences Library System University of Pittsburgh 200 Scaife Hall 3550 Terrace Street Pittsburgh, PA 15261 412.624.1411 Send Email

Links:

Profile & Guides

Subjects:

Consumer Health K-12
Professionals Outreach Health
Literacy Outreach to Soliders,
Veterans and Military Families
Outreach to Underrepresented and
Minority Populations Outreach to
Seniors

MedlinePlus Magazine

URL for Public Libraries Resource Guide

MedlinePlus Magazine

A quarterly publication of the Friends of the National Library of Medicine.

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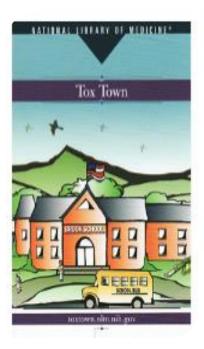


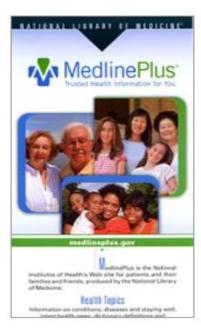
NLM Educational & Printed Materials

If you are an NN/LM network member you may order educational and printed materials online from your regional NN/LM office.

Medline Plus

MedlinePlus





URL for Ordering Materials from NN/LM MAR (DE, NJ, NY & PA)

Join NN/LM

Members of the National Network of Libraries of Medicine (NN/LM) provide health professionals and the general public with health information resources and services.

Network Members receive a variety of benefits and services, including:

Membership Benefit Comparison

Benefits	Full Members	Affiliate Members
Eligibility for award <u>funding</u> for health information access and other projects	Х	x
Training and educational opportunities for librarians, health professionals, and consumers	х	x
Opportunities to partner with other health sciences libraries or health-related information centers	Х	х
Obtain educational and printed materials for NLM posters, brochures, bookmarks, and other publications	х	х
Opportunities to request an NLM Traveling Exhibition & to visit your library or organization	х	x
Opportunities to provide input on regional NN/LM programs and services	Х	x
A certificate recognizing your institution, library or organization as a NN/LM member	Х	x
Access to DOCLINE , the interlibrary loan system used by health sciences libraries	Х	

URL for NN/LM MAR Membership (DE, NJ, NY & PA)

URL for NN/LM to locate your Regional Medical Library for membership information

Thank You





Lydia N Collins
National Network of Libraries of Medicine,
Middle Atlantic Region
Consumer Health Coordinator
LYDIA@PITT.EDU

URL for NN/LM MAR



Institutes of Health, Department of Health and Human Services, under Contract No. HHS-N-276-2011-00003-C with the University of Pittsburgh, Health Sciences Library System.